

IN THE CLAIMS:

Please amend the claims as follows:

Claim1 (Currently Amended): An apparatus for evaluating a polysilicon film formed  
[[on]] by annealing an amorphous silicon film, comprising:

a stage ~~for setting~~ configured to receive a substrate thereon, said substrate carrying a polysilicon film formed thereon;

[[an]] a first optical system ~~for observation with the~~ configured to observe visible light, said first optical system illuminating the visible light on said substrate on said stage for photographing a surface image of said polysilicon film on said substrate to effect auto-focusing;

[[an]] a second optical system ~~for observation with~~ configured to observe UV light, said second optical system illuminating the UV light on said substrate on said stage for acquiring a surface image of said polysilicon film on said substrate, auto-focused using said second optical system for observation with the visible light; and

evaluation means for evaluating the linearity and periodicity of a spatial structure of  
[[the]] a film surface of said polysilicon film from the surface image of said polysilicon film acquired by said second optical system ~~for observation with UV light~~ to evaluate [[the]] a state of said polysilicon film based on ~~the results of~~ evaluation of said linearity and periodicity.

Claim 2 (Currently Amended): The polysilicon film evaluation apparatus according to claim 1 wherein [[the]] a wavelength of said UV light is shorter than an evaluation period of said polysilicon film multiplied by a numerical aperture (NA) of an objective lens for observation in said second optical system.

Claim 3 (Currently Amended): The polysilicon film evaluation apparatus according to claim 1 or 2 wherein said stage may be switched between a first state in which said stage is mounted on a support via oscillation preventative means ~~designed~~ for preventing oscillations of said stage so that an oscillation preventative operation by said oscillation preventative means occurs, and a second state in which said stage is secured to said support so that said oscillation preventative operation ceases.

Claim 4 (Currently Amended): The polysilicon film evaluation apparatus according to ~~any one of claims~~ claim 1 [[to 3]] wherein said first optical system ~~for observation with the visible light~~ and said second optical system ~~for observation with the UV light~~ are constructed as one an integral unit.

Claim 5 (Original): The polysilicon film evaluation apparatus according to claim 4 wherein said unit is detachably loaded at an upper portion of a main body unit of the apparatus where said stage is mounted.

Claim 6 (Currently Amended): The polysilicon film evaluation apparatus according to ~~any one of claims~~ claim 1 [[to 5]] further comprising:

a rotatable revolver integrally carrying thereon an objective lens for visible light of said first optical system ~~for observation with the visible light~~ and an objective lens for UV light of said second optical system ~~for observation with UV light~~ wherein [[the]] a state of use of said objective lens for visible light and said objective lens for UV light is changed over on rotational operation of said revolver.

Claim 7 (Currently Amended): The polysilicon film evaluation apparatus according to claim 6 further comprising:

light volume control means for controlling ~~[[the]]~~ a volume of illuminated light of at least one of said first and second optical systems ~~for observation with the visible light and said optical system for observation with UV light;~~

said light volume control means including a reflection mirror for reflecting the illuminated light for monitoring the volume of illuminated light; and

said reflecting mirror being provided in a vacant region of said revolver.

Claim 8 (Currently Amended): The polysilicon film evaluation apparatus according to ~~any one of claims~~ claim 1 ~~[[to 7]]~~ wherein said stage is movable along three axes perpendicular to one another, that is along X-, Y- and Z-axes;

~~[[the]]~~ an upper limit position along the Z-axis direction of said stage being set as a function of XY coordinates in meeting with smoothness of an XY plane of said stage.

Claim 9 (Currently Amended): The polysilicon film evaluation apparatus according to according to ~~any one of claims~~ claim 1 ~~[[to 8]]~~ wherein said evaluation means captures a plurality of surface images of said polysilicon film with different focus values, by said second optical system ~~for observation with UV light~~, to acquire an image with ~~best~~ an optimal focus; and wherein said evaluation means has ~~[[the]]~~ a learning function ~~[[of]]~~ to acquiring acquire the image of the ~~best~~ optimal focus with a ~~lesser~~ decreasing number of images captured with an increasing number of times of evaluation operations.